

XP Preparation/Review Has Begun



- All ETs are holding group reviews w/ good discussion
 - Please continue to prepare XPs for review
 - Should focus on high priority XPs than can run in 1st month
- Now expect initial operation to be at $B_T=4.5\text{kG}$
 - Hopeful that this TF level will be available throughout run
- Depending on machine conditions, we may perform another bake-out + hot boronization in early/mid-April
 - If we do bake, the next maintenance period would likely not occur until mid to late May (see next few slides...)

Run Schedule Overview



- ISTP scheduled for week of March 28th
- Start plasma operations by April 4th
 - Make plasma by end of ISTP week if possible
- Run is very compressed due to late start
 - 26 weeks between April 4 and September 30
 - Subtract 2 weeks for fixed August maintenance/vacation weeks
 - Subtract 1 week for re-bakeout (?)
 - Subtract 2 weeks for additional maintenance
 - Subtract 1+ week for calibration & XMP activities + holidays
 - < 20 run weeks available, 17 required to meet FY05 milestone
 - Typical previous good runs had 70-80% availability
 - Finishing 85 run days before Sept. 30 unlikely w/o extra hrs.
 - Initially, we will run until 7pm 2 days per week (Tu & Th)

NSTX FY05 Run Calendar (DRAFT)

Week	Monday	Tues and Thurs are 10 hour run-days	Friday	Run days	Weeks
1	28-Mar	ISTP ACTIVITIES	1-Apr		
2	4-Apr	RUN WEEK	8-Apr	5.50	1
3	11-Apr	MAINTENANCE (BAKEOUT?)	15-Apr	5.50	1
4	18-Apr	RUN WEEK	22-Mar	11.00	2
5	25-Apr	RUN WEEK	29-Apr	16.50	3
6	2-May	RUN WEEK	6-May	22.00	4
7	9-May	RUN WEEK	13-May	27.50	6
8	16-May	RUN WEEK	20-May	33.00	7
9	23-May	MAINTENANCE	27-May	33.00	7
10	Memorial Day	RUN WEEK	3-Jun	37.50	8
11	6-Jun	RUN WEEK	10-Jun	43.00	9
12	13-Jun	RUN WEEK	17-Jun	48.50	10
13	20-Jun	RUN WEEK	24-Jun	54.00	11
14	27-Jun	MAINTENANCE (EPS MEETING)	1-Jul	54.00	11
15	Independence Day	RUN WEEK	8-Jul	58.50	12
16	11-Jul	RUN WEEK	15-Jul	64.00	13
17	18-Jul	RUN WEEK	22-Jul	69.50	14
18	25-Jul	RUN WEEK	29-Jul	75.00	15
19	1-Aug	MAINTENANCE (VACATION)	5-Aug	75.00	15
20	8-Aug	RUN WEEK	12-Aug	80.50	16
21	15-Aug	RUN WEEK	19-Aug	86.00	17
22	22-Aug	RUN WEEK (CALIBRATIONS)	26-Aug		
23	29-Aug	MAINTENANCE (VACATION)	2-Sep		
24	Labor Day	CONTINGENCY	9-Sep		
25	12-Sep	CONTINGENCY	16-Sep		
26	19-Sep	CONTINGENCY	23-Sep		
27	26-Sep	CONTINGENCY	30-Sep		

Example Schedule with Early Bakeout (Draft)

Week	Monday	Tuesday	Wednesday	Thursday	Friday
1	28-Mar	29-Mar	30-Mar	31-Mar	1-Apr
	ISTP	ISTP	ISTP	ISTP	ISTP
Hours	8	8	8	8	8
2	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr
	XMP 20 Control Sys Comm. Mueller, D	More XMP 20 XMP 3 Magnetics Calibrations Menard, J	XMP 24 Commission rtEFIT Gates, D	XMP 32 rtEFIT shape dev. Gates / Mueller	XMP 33 Gas filled torus - MSE Levinton, F
Hours	8	10	8	10	8
3	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr
	BAKEOUT (?)				
Hours	0	0	0	0	0
4	18-Apr	19-Apr	20-Apr	21-Apr	22-Mar
	XMP TBD High-beta shape dev. Gates-Mueller-Menard	XP 501 High-beta with PF1A Gates, D	XP 516 Supersonic Gas Inj Soukhanovskii, V	XP 515 Lithium Pellet Inj Kugel, H	XMP 32 rtEFIT shape dev. Mueller / Gates
Hours	8	10	8	10	8
5	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr
	XMP 30 HHFW Brkdown + SGI Menard, Soukhan.	XP 508 DND long-pulse Gates, D	XP 506 Ohmic H-mode Bush, C	XP 505 LH Threshold Maingi, R	XMP TBD RWM coil/sensor calib Sontag, A
Hours	8	10	8	10	8